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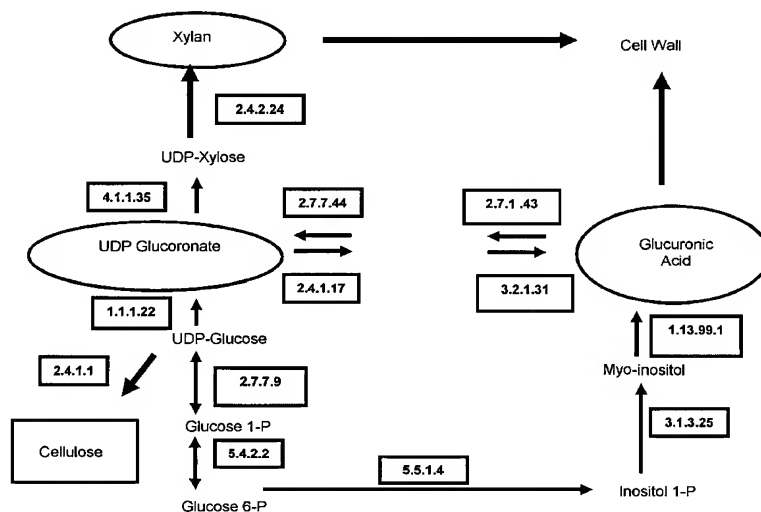
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(54) Title: METHOD FOR THE GENETIC MODULATION OF THE BIOSYNTHESIS OF HEMICELLULOSES, CELLULOSE AND URONIC ACIDS IN PLANT CELLS USING GENE EXPRESSION CASSETTES



(57) Abstract: The present invention refers to gene expression cassettes encoding enzymes involved in the metabolic pathway for the biosynthesis of hemicelluloses, cellulose and/or uronic acids, and to a method for genetic transformation of plant cells through the introduction of one or more gene expression cassettes from the present invention, and the overexpression and repression of these genes in plants. More particularly, the present invention refers to a method for introducing expression cassettes in plants. Additionally, the present invention refers to genetically modified plants. The present invention also refers to the attainment of the genetically modified plant, its derived plants and seeds, as well as the wood, paper and cellulose from this plant.

WO 2005/071086 A1



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